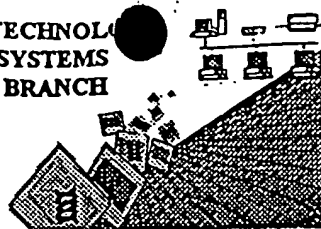# RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10 517,039

Source: PCT

Date Processed by STIC: 12-22-04

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1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual - ePAVE)
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   U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

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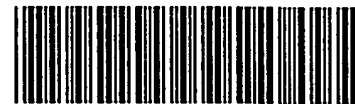
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RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

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ERRORED SEQUENCES

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412 attcgtttaa tttctgaatt ttacccggaa gacagcggtc tgttctcccc gctattgctg 720
414 aatgtggtga aattgaaccc tggcgaagcg atgttcctgt tcgctgaaac accgcacgct 780
416 tacctgcaag gcgtggcgct ggaagtgatg gcaactccg ataacgtgct gcgtgcgggt 840
```
E--> 418　Page 6
W--> 422　70094 Syngenta — delete
```
E--> 424 ctgacgccta aatacattga tattccggaa ctggttgcca atgtgaaatt cgaagccaaa 900
E--> 426 ccggctaacc agttgttgac ccagccggtg aaacaaggtg cagaactgga cttccccgatt 960
E--> 428 ccagtggatg attttgcctt ctcgctgcat gaccttagtg ataaagaaac caccattagc 1020
E--> 430 cagcagagtg ccgccatttt gttctgcgtc gaaggcgatg caacgttgtg gaaaggttct 1080
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E--> 436 aaaattaaca tctcttgcta agctgggagc tctagatccc cgaatttccc cgatcgttca 1260
E--> 438 aacatttggc aataaagttt cttaagattg aatcctgttg ccggtcttgc gatgattatc 1320
E--> 440 atataatttc tgttgaatta cgttaagcat gtaataatta acatgtaatg catgacgtta 1380
E--> 442 tttatgagat gggttttttat gattagagtc ccgcaattat acatttaata cgcgatagaa 1440
E--> 444 aacaaaatat agcgcgcaaa ctaggataaa ttatcgcgcg cggtgtcatc tatgttacta 1500
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E--> 456 gctcaaggcg cactcccgtt ctggataatg tttttttgcgc cgacatcata acggttctgg 1860
E--> 458 caaatattct gaaatgagct gttgacaatt aatcatccgg ctcgtataat gtgtggaatt 1920
E--> 460 gtgagcggat aacaatttca cacaggaaac agaccatgag ggaagcgttg atcgccgaag 1980
E--> 462 tatcgactca actatcagag gtagttggcg tcatcgagcg ccatctcgaa ccgacgttgc 2040
E--> 464 tggccgtaca tttgtacggc tccgcagtgg atggcggcct gaagccacac agtgatattg 2100
E--> 466 atttgctggt tacggtgacc gtaaggcttg atgaaacaac gcggcgagct ttgatcaacg 2160
E--> 468 acctttttgga aacttcggct tcccctggag agagcgagat tctccgcgct gtagaagtca 2220
E--> 470 ccattgttgt gcacgacgac atcattccgt ggcgttatcc agctaagcgc gaactgcaat 2280
E--> 472 ttggagaatg gcagcgcaat gacattcttg caggtatctt cgagccagcc acgatcgaca 2340
E--> 474 ttgatctggc tatcttgctg acaaaagcaa gagaacatag cgttgccttg gtaggtccag 2400
E--> 476 cggcggagga actctttgat ccggttcctg aacaggatct atttgaggcg ctaaatgaaa 2460
```

OK

What is this? (what this?)

```
E--> 577 gagctgcaaa aagcgcctac ccttcggtcg ctgcgctccc tacgccccgc cgcttcgcgt 5220
E--> 579 cggcctatcg cggccgctgg ccgctcaaaa atggctggcc tacggccagg caatctacca 5280
E--> 581 gggcgcggac aagccgcgcc gtcgccactc gacggccggc gctgaggtcg gcctcgtgaa 5340
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E--> 585 gagccacggt tgatgagagc tttgttgtc9 gtggaccagt tggtgcttt gaactttttgc 5460 - 5459
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E--> 589 aaagttcgat ttattcaaca aagccgccgt cccgtcaagt cagcgtaatg ctctgccagt 5580 - 5579
E--> 591 gttacaacca attaaccaat tctgattaga aaaactcatc gagcatcaaa tgaaactgca 5640
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E--> 595 gagaaaactc accgaggcag ttccatagga tggcaagatc ctggtatcgg tctgcgattc 5760
E--> 597 cgactcgtcc aacatcaata caacctatta atttcccctc gtcaaaaata aggttatcaa 5820
E--> 599 gtgagaaatc accatgagtg acgactgaat ccggtgagaa tggcaaaagc tctgcattaa 5880
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E--> 613 accctgccgc ttaccggata cctgtccgcc tttctccctt cgggaagcgt ggcgctttct 6300
E--> 615 catagctcac gctgtaggta tctcagttcg gtgtaggtcg ttcgctccaa gctgggctgt 6360
E--> 617 gtgcacgaac ccccgttca gcccgaccgc tgcgccttat ccggtaacta tcgtcttgag 6420
E--> 619 tccaaccgg taagacacga cttatcgcca ctggcagcag ccactggtaa caggattagc 6480
E--> 621      Page 9                          delete
W--> 625      70094 Syngenta
E--> 627 agagcgaggt atgtaggcgg tgctacagag ttcttgaagt ggtggcctaa ctacggctac 6540
E--> 629 actagaagaa cagtatttgg tatctgcgct ctgctgaagc cagttacctt cggaaaaaga 6600
E--> 631 gttggtagct cttgatccgg caaacaaacc accgctggta gcggtggttt ttttgtttgc 6660
E--> 633 aagcagcaga ttacgcgcag aaaaaaagga tctcaagaag atcctttgat ctttctacg 6720
E--> 635 gggtctgacg ctcagtggaa cgaaaactca cgttaaggga ttttggtcat gagattatca 6780
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E--> 641 aacgctcttt tctcttaggt ttacccgcca atatatcctg tcaaacactg atagtttaaa 6960
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Same errors

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E--> 679 ctgcagggcg gcggcaacta cagatgccag ttccacacct cctacaagac caagaagccc 8100
E--> 681 gtgaccatgc cccccaacca cgtggtggag caccgcatcg ccagaaccga cctggacaag 8160
E--> 683 ggcggcaaca gcgtgcagct gaccgagcac gccgtggccc acatcacctc cgtggtgccc 8220
E--> 685 ttctgagagc tctagatccc cgaatttccc cgatcgttca aacatttggc aataaagttt 8280
E--> 687 cttaagattg aatcctgttg ccggtcttgc gatgattatc atataatttc tgttgaatta 8340
E--> 689 cgttaagcat gtaataatta acatgtaatg catgacgtta tttatgagat gggtttttat 8400
E--> 691    Page 10                      delete
W--> 694    70094 Syngenta
E--> 696 gattagagtc ccgcaattat acatttaata cgcgatagaa aacaaaatat agcgcgcaaa 8460
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E--> 702 atcgccttgc agcacatccc cctttcgcca gctggcgtaa tagcgaagag gcccgcaccg 8640
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E--> 706 tccttacgca tctgtgcggt atttcacacc gcatatggtg cactctcagt acaatctgct 8760
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    738 <211> LENGTH: 10604
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    740 <213> ORGANISM: Artificial
    742 <220> FEATURE:
    743 <223> OTHER INFORMATION: pBSC11234
    745 <400> SEQUENCE: 3
    746 cgcgcctaaa gcttgcatgc ctgcaggtcg actctagagg atcctggcag acaaagtggc 60
    748 agacatactg tcccacaaat gaagatggaa tctgtaaaag aaaacgcgtg aaataatgcg 120
    750 tctgacaaag gttaggtcgg ctgcctttaa tcaataccaa agtggtccct accacgatgg 180
    752 aaaaactgtg cagtcggttt ggctttttct gacgaacaaa taagattcgt ggccgacagg 240
    754 tgggggtcca ccatgtgaag gcatcttcag actccaataa tggagcaatg acgtaagggc 300
    756 ttacgaaata agtaagggta gtttgggaaa tgtccactca cccgtcagtc tataaatact 360
E--> 758    Page 11                      delete
W--> 760    70094 Syngenta
E--> 762 tagcccctcc ctcattgtta agggagcaaa atctcagaga gatagtccta gagagagaaa 420
E--> 764 gagagcaagt agcctagaag taggatcccc gatcatgcaa aaactcatta actcagtgca 480
E--> 766 aaactatgcc tggggcagca aaacggcgtt gactgaactt tatggtatgg aaaatccgtc 540
E--> 768 cagccagccg atggccgagc tgtggatggg cgcacatccg aaaagcagtt cacgagtgca 600
E--> 770 gaatgccgcc ggagatatcg tttcactgcg tgatgtgatt gagagtgata aatcgactct 660
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Same errors

RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

Input Set : A:\Sequence Listing-70094USPCT.txt
Output Set: N:\CRF4\12222004\J517039.raw

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E--> 772 gctcggagag gccgttgcca aacgctttgg cgaactgcct ttcctgttca aagtattatg 720
E--> 774 cgcagcacag ccactctcca ttcaggttca tccaaacaaa cacaattctg aaatcggttt 780
E--> 776 tgccaaagaa aatgccgcag gtatcccgat ggatgccgcc gagcgtaaat ataaagatcc 840
E--> 778 taaccacaag ccggagctgg tttttgcgct gacgcctttc cttgcgatga acgcgtttcg 900
E--> 780 tgaatttttcc gagattgtct ccctactcca gccggtcgca ggtgcacatc cggcgattgc 960
E--> 782 tcactttttta caacagcctg atgccgaacg tttaagcgaa ctgttcgcca gcctgttgaa 1020
E--> 784 tatgcagggt gaagaaaaat cccgcgcgct ggcgatttta aaatcggccc tcgatagcca 1080
E--> 786 gcagggtgaa ccgtggcaaa cgattcgttt aatttctgaa ttttacccgg aagacagcgg 1140
E--> 788 tctgttctcc ccgctattgc tgaatgtggt gaaattgaac cctggcgaag cgatgttcct 1200
E--> 790 gttcgctgaa acaccgcacg cttacctgca aggcgtggcg ctggaagtga tggcaaactc 1260
E--> 792 cgataacgtg ccggtgcgg gtctgacgcc taaatacatt gatattccgg aactggttgc 1320
E--> 794 caatgtgaaa ttcgaagcca aaccggctaa ccagttgttg acccagccgg tgaaacaagg 1380
E--> 796 tgcagaactg gacttcccga ttccagtgga tgattttgcc ttctcgctgc atgaccttag 1440
E--> 798 tgataaagaa accaccatta gccagcagag tgccgccatt ttgttctgcg tcgaaggcga 1500
E--> 800 tgcaacgttg tggaaaggtt ctcagcagtt acagcttaaa ccgggtgaat cagcgtttat 1560
E--> 802 tgccgccaac gaatcaccgg tgactgtcaa aggccacggc cgtttagcgc gtgtttacaa 1620
E--> 804 caagctgtaa gagcttactg aaaaaattaa catctcttgc taagctggga gctctagatc 1680
E--> 806 cccgaatttc cccgatcgtt caaacatttg gcaataaagt ttcttaagat tgaatcctgt 1740
E--> 808 tgccggtctt gcgatgatta tcatataatt tctgttgaat tacgttaagc atgtaataat 1800
E--> 810 taacatgtaa tgcatgacgt tatttatgag atgggttttt atgattagag tcccgcaatt 1860
E--> 812 atacatttaa tacgcgatag aaaacaaaat atagcgcgca aactaggata aattatcgcg 1920
E--> 814 cgcggtgtca tctatgttac tagatcggga attgggtacc atgcccgggc ggccagcatg 1980
E--> 816 gccgtatccg caatgtgtta ttaagttgtc taagcgtcaa tttgtttaca ccacaatata 2040
E--> 818 tcctgccacc agccagccaa cagctccccg accggcagct cggcacaaaa tcaccactcg 2100
E--> 820 atacaggcag cccatcagaa ttaattctca tgtttgacag cttatcatcg actgcacggt 2160
E--> 822 gcaccaatgc ttctggcgtc aggcagccat cggaagctgt ggtatggctg tgcaggtcgt 2220
E--> 824 aaatcactgc ataattcgtg tcgctcaagg cgcactcccg ttctggataa tgttttttgc 2280
E--> 826     Page 12
W--> 828     70094 Syngenta
E--> 830 gccgacatca taacggttct ggcaaatatt ctgaaatgag ctgttgacaa ttaatcatcc 2340
E--> 832 ggctcgtata atgtgtggaa ttgtgagcgg ataacaattt cacacaggaa acagaccatg 2400
E--> 834 agggaagcgt tgatcgccga agtatcgact caactatcag aggtagttgg cgtcatcgag 2460
E--> 836 cgccatctcg aaccgacgtt gctggccgta catttgtacg gctccgcagt ggatggcggc 2520
E--> 838 ctgaagccac acagtgatat tgatttgctg gttacggtga ccgtaaggct tgatgaaaca 2580
E--> 840 acgcggcgag ctttgatcaa cgaccttttg gaaacttcgg cttcccctgg agagagcgag 2640
E--> 842 attctccgcg ctgtagaagt caccattgtt gtgcacgacg acatcattcc gtggcgttat 2700
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E--> 864 tcacttgtaa caacgattga gaattttgt cataaaattg aaatacttgg ttcgcatttt 3360
E--> 866 tgtcatccgc ggtcagccgc aattctgacg aactgcccat ttagctggag atgattgtac 3420
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RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

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Output Set: N:\CRF4\12222004\J517039.raw

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E--> 954 gttggtgatt ttgaactttt gctttgccac ggaacggtct gcgttgtcgg gaagatgcgt 5940
E--> 956 gatctgatcc ttcaactcag caaaagttcg atttattcaa caaagccgcc gtcccgtcaa 6000
E--> 958 gtcagcgtaa tgctctgcca gtgttacaac caattaacca attctgatta gaaaaactca 6060
E--> 960     Page 14
W--> 962     70094 Syngenta          delete
E--> 964 tcgagcatca aatgaaactg caatttattc atatcaggat tatcaatacc atatttttga 6120
E--> 966 aaaagccgtt tctgtaatga aggagaaaac tcaccgaggc agttccatag gatggcaaga 6180
```

← Invalid Amino Acid designators

file://C:\CRF4\OUTHOLD\VsrJ517039.htm   12/22/04

RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

Input Set : A:\Sequence Listing-70094USPCT.txt
Output Set: N:\CRF4\12222004\J517039.raw

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E--> 978  aggaaagaac atgtgagcaa aaggccagca aaaggccagg aaccgtaaaa aggccgcgtt 6540
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E--> 1010 attaagggag tcacgttatg accccgccg atgacgcggg acaagccgtt ttacgtttgg 7500
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E--> 1022 tttttggcat atttaataat gactattctt taataatcga tcattattct tacatggtac 7860
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```

E--> 1026   (Page 15
W--> 1029   70094 Syngenta) — delete

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E--> 1035 ttggatcata agaaaaagcc aaggaacaaa agaagacaaa acacaatggg agtatccttt 8100
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     1130 <213> ORGANISM: Artificial
     1132 <220> FEATURE:
     1133 <223> OTHER INFORMATION: pBScl1369
     1135 <400> SEQUENCE: 4
     1136 aagcttctgg cagacaaagt ggcagacata ctgtcccaca aatgaagatg gaatctgtaa 60
     1138 aagaaacgc gtgaaataat gcgtctgaca aaggttaggt cggctgcctt taatcaatac 120
     1140 caaagtggtc cctaccacga tggaaaaact gtgcagtcgg tttggctttt tctgacgaac 180
     1142 aaataagatt cgtggccgac aggtgggggt ccaccatgtg aaggcatctt cagactccaa 240
     1144 taatggagca atgacgtaag ggcttacgaa ataagtaagg gtagtttggg aaatgtccac 300
     1146 tcacccgtca gtctataaat acttagcccc tccctcattg ttaagggagc aaggatccac 360
     1148 cggtcgccac catggcccag tccaagcacg gcctgaccaa ggagatgacc atgaagtacc 420
     1150 gcatggaggg ctgcgtggac ggccacaagt cgtgatcac cggcgagggc atcggctacc 480
     1152 ccttcaaggg caagcaggcc atcaacctgt gcgtggtgga gggcggcccc ttgcccttcg 540
     1154 ccgaggacat cttgtccgcc gccttcatgt acggcaaccg cgtgttcacc gagtacccc 600
     1156 aggacatcgt cgactacttc aagaactcct gccccgccgg ctacacctgg gaccgctcct 660
     1158 tcctgttcga ggacggcgcc gtgtgcatct gcaacgccga catcaccgtg agcgtggagg 720
     1160 agaactgcat gtaccacgag tccaagttct acggcgtgaa cttccccgcc gacggccccg 780
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RAW SEQUENCE LISTING　　　　　　DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039　　TIME: 09:15:16

Input Set : A:\Sequence Listing-70094USPCT.txt
Output Set: N:\CRF4\12222004\J517039.raw

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E--> 1170  tgcgctgcca gttcgacacc gtgtacaagg ccaagtccgt gccccgcaag atgcccgact 960
E--> 1172  ggcacttcat ccagcacaag ctgacccgcg aggaccgcag cgacgccaag aaccagaagt 1020
E--> 1174  ggcacctgac cgagcacgcc atcgcctccg gctccgcctt gccctgctct agatcccgaa 1080
E--> 1176  tttccccgat cgttcaaaca tttggcaata aagtttctta agattgaatc ctgttgccgg 1140
E--> 1178  tcttgcgatg attatcatat aatttctgtt gaattacgtt aagcatgtaa taattaacat 1200
E--> 1180  gtaatgcatg acgttattta tgagatgggt ttttatgatt agagtcccgc aattatacat 1260
E--> 1182  ttaatacgcg atagaaaaca aaatatagcg cgcaaactag gataaattat cgcgcgcggt 1320
E--> 1184  gtcatctatg ttactagatc gggaattggg gaaatttacc ggtgccgaat ttccccgatc 1380
E--> 1186  cagcttctgg cagacaaagt ggcagacata ctgtcccaca aatgaagatg gaatctgtaa 1440
E--> 1188  aagaaacgc gtgaaataat gcgtctgaca aaggttaggt cggctgcctt taatcaatac 1500
E--> 1190  caaagtggtc cctaccacga tggaaaaact gtgcagtcgg tttggctttt tctgacgaac 1560
E--> 1192  aaataagatt cgtggccgac aggtgggggt ccaccatgtg aaggcatctt cagactccaa 1620
E--> 1194  taatggagca atgacgtaag ggcttacgaa ataagtaagg gtagtttggg aaatgtccac 1680
E--> 1196  tcacccgtca gtctataaat acttagcccc tccctcattg ttaagggagc aaggatccat 1740
E--> 1198  gaaaaagcct gaactcaccg cgacgtctgt cgagaagttt ctgatcgaaa agttcgacag 1800
E--> 1200  cgtctccgac ctgatgcagc tctcggaggg cgaagaatct cgtgctttca gcttcgatgt 1860
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E--> 1206  ggaattcagc gagagcctga cctattgcat ctcccgccgt gcacagggtg tcacgttgca 2040
E--> 1208  agacctgcct gaaaccgaac tgcccgctgt tctgcagccg gtcgcggagg ccatggatgc 2100
E--> 1210  gatcgctgcg gccgatctta gccagacgag cgggttcggc ccattcggac cgcaaggaat 2160
E--> 1212  cggtcaatac actacatggc gtgatttcat atgcgcgatt gctgatcccc atgtgtatca 2220
E--> 1214  ctggcaaact gtgatggacg acaccgtcag tgcgtccgtc gcgcaggctc tcgatgagct 2280
E--> 1216  gatgctttgg gccgaggact gccccgaagt ccggcacctc gtgcacgcgg atttcggctc 2340
E--> 1218  caacaatgtc ctgacggaca atggccgcat aacagcggtc attgactgga gcgaggcgat 2400
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E--> 1222  tatggagcag cagacgcgct acttcgagcg gaggcatccg gagcttgcag gatcgccgcg 2520
E--> 1224  gctccgggcg tatatgctcc gcattggtct tgaccaactc tatcagagct tggttgacgg 2580
E--> 1226  caatttcgat gatgcagctt gggcgcaggg tcgatgcgac gcaatcgtcc gatccggagc 2640
E--> 1228  cgggactgtc gggcgtacac aaatcgcccg cagaagcgcg gccgtctgga ccgatggctg 2700
E--> 1230    Page 18                  delete
W--> 1233    70094 Syngenta
E--> 1235  tgtagaagta ctcgccgata gtggaaaccg acgccccagc actcgtccga ggcaaagga 2760  2758
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E--> 1255  aattctcatg tttgacagct tatcatcgac tgcacggtgc accaatgctt ctggcgtcag 3360
E--> 1257  gcagccatcg gaagctgtgg tatggctgtg caggtcgtaa atcactgcat aattcgtgtc 3420
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What is this? 2758

RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

Input Set : A:\Sequence Listing-70094USPCT.txt
Output Set: N:\CRF4\12222004\J517039.raw

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E--> 1344 gtgtgggatt acgacctggt actgatggcg gtttcccatc taaccgaatc catgaaccga 5880
E--> 1346 taccgggaag ggaagggaga caagcccggc cgcgtgttcc gtccacacgt tgcggacgta 5940
E--> 1348 ctcaagttct gccggcgagc cgatggcgga aagcagaaag acgacctggt agaaacctgc 6000
E--> 1350 attcggttaa acaccacgca cgttgccatg cagcgtacga agaaggccaa gaacggccgc 6060
E--> 1352 ctggtgacgg tatccgaggg tgaagccttg attagccgct acaagatcgt aaagagcgaa 6120
E--> 1354 accgggcggc cggagtacat cgagatcgag ctagctgatt ggatgtaccg cgagatcaca 6180
E--> 1356 gaaggcaaga acccggacgt gctgacggtt caccccgatt acttttgat cgatcccggc 6240
E--> 1358 atcggccgtt ttctctaccg cctggcacgc cgcgccgcag gcaaggcaga agccagatgg 6300
```

RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

Input Set : A:\Sequence Listing-70094USPCT.txt
Output Set: N:\CRF4\12222004\J517039.raw

```
E--> 1360  ttgttcaaga cgatctacga acgcagtggc agcgccggag agttcaagaa gttctgtttc 6360
E--> 1362  accgtgcgca agctgatcgg gtcaaatgac ctgccggagt acgatttgaa ggaggaggcg 6420
E--> 1364  gggcaggctg gaccgatcct agtcatgcgc taccgcaacc tgatcgaggg cgaagcatcc 6480
E--> 1366       Page 20
W--> 1368       70094 Syngenta          delete
E--> 1370  gccggttcct aatgtacgga gcagatgcta gggcaaattg ccctagcagg ggaaaaaggt 6540
E--> 1372  cgaaaaggtc tctttcctgt ggatagcacg tacattggga acccaaagcc gtacattggg 6600
E--> 1374  aaccggaacc cgtacattgg gaacccaaag ccgtacattg ggaaccggtc acacatgtaa 6660
E--> 1376  gtgactgata taaaagagaa aaaaggcgat ttttccgcct aaaactcttt aaaacttatt 6720
E--> 1378  aaaactctta aaacccgcct ggcctgtgca taactgtctg gccagcgcac agccgaagag 6780
E--> 1380  ctgcaaaaag cgcctaccct tcggtcgctg cgctccctac gccccgccgc ttcgcgtcgg 6840
E--> 1382  cctatcgcgg ccgctggccg ctcaaaaatg gctggcctac ggccaggcaa tctaccaggg 6900
E--> 1384  cgcggacaag ccgcgccgtc gccactcgac cgccggcgct gaggtctgcc tcgtgaagaa 6960
E--> 1386  ggtgttgctg actcatacca ggcctgaatc gccccatcat ccagccagaa agtgagggag 7020
E--> 1388  ccacggttga tgagagcttt gttgtaggtg gaccagttgg tgattttgaa cttttgcttt 7080
E--> 1390  gccacggaac ggtctgcgtt gtcgggaaga tgcgtgatct gatccttcaa ctcagcaaaa 7140
E--> 1392  gttcgattta ttcaacaaag ccgccgtccc gtcaagtcag cgtaatgctc tgccagtgtt 7200
E--> 1394  acaaccaatt aaccaattct gattagaaaa actcatcgag catcaaatga aactgcaatt 7260
E--> 1396  tattcatatc aggattatca ataccatatt tttgaaaaag ccgtttctgt aatgaaggag 7320
E--> 1398  aaaactcacc gaggcagttc cataggatgg caagatcctg gtatcggtct gcgattccga 7380
E--> 1400  ctcgtccaac atcaatacaa cctattaatt tcccctcgtc aaaaataagg ttatcaagtg 7440
E--> 1402  agaaatcacc atgagtgacg actgaatccg gtgagaatgg caaaagctct gcattaatga 7500
E--> 1404  atcggccaac gcgcggggag aggcggtttg cgtattgggc gctcttccgc ttcctcgctc 7560
E--> 1406  actgactcgc tgcgctcggt cgttcggctg cggcgagcgg tatcagctca ctcaaaggcg 7620
E--> 1408  gtaatacggt tatccacaga atcaggggat aacgcaggaa agaacatgtg agcaaaaggc 7680
E--> 1410  cagcaaaagg ccaggaaccg taaaaaggcc gcgttgctgg cgttttttcca taggctccgc 7740
E--> 1412  cccctgacg  agcatcacaa aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga 7800
E--> 1414  ctataaagat accaggcgtt tcccctgga  agctccctcg tgcgctctcc tgttccgacc 7860
E--> 1416  ctgccgctta ccggatacct gtccgccttt ctcccttcgg gaagcgtggc gctttctcat 7920
E--> 1418  agctcacgct gtaggtatct cagttcggtg taggtcgttc gctccaagct gggctgtgtg 7980
E--> 1420  cacgaacccc ccgttcagcc cgaccgctgc gccttatccg gtaactatcg tcttgagtcc 8040
E--> 1422  aacccggtaa gacacgactt atcgccactg gcagcagcca ctggtaacag gattagcaga 8100
E--> 1424  gcgaggtatg taggcggtgc tacagagttc ttgaagtggt ggcctaacta cggctacact 8160
E--> 1426  agaagaacag tatttggtat ctgcgctctg ctgaagccag ttaccttcgg aaaaagagtt 8220
E--> 1428  ggtagctctt gatccggcaa acaaaccacc gctggtagcg gtggtttttt tgtttgcaag 8280
E--> 1430  cagcagatta cgcgcagaaa aaaaggatct caagaagatc ctttgatctt ttctacgggg 8340
E--> 1432       Page 21
W--> 1434       70094 Syngenta          delete
E--> 1436  tctgacgctc agtggaacga aaactcacgt taagggattt tggtcatgag attatcaaaa 8400
E--> 1438  aggatcttca cctagatcct tttgatccgg aattaattcc tgtggttggc atgcacatac 8460
E--> 1440  aaatggacga acggataaac cttttcacgc ccttttaaat atccgattat ctaataaac  8520
E--> 1442  gctcttttct cttaggttta cccgccaata tatcctgtca aacactgata gtttaaactg 8580
E--> 1444  aaggcgggaa acgacaatct gatcatgagc ggagaattaa gggagtcacg ttatgacccc 8640
E--> 1446  cgccgatgac gcgggacaag ccgttttacg tttggaactg acagaaccgc aacgctgcag 8700
E--> 1448  gaattggccg gagcggccat ttaaatcaat tgggcgcgcc gaattcgagc tcggtac  8757
E--> 1450       Page 22                                                  8755
```

PIS delete

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:17

Input Set : **A:\Sequence Listing-70094USPCT.txt**
Output Set: **N:\CRF4\12222004\J517039.raw**

<u>**Invalid <213> Response:**</u>
**Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.**

Seq#:1,2,3,4

VERIFICATION SUMMARY   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:17

Input Set : **A:\Sequence Listing-70094USPCT.txt**
Output Set: **N:\CRF4\12222004\J517039.raw**

```
L:1 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:
L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:65 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:1264 SEQ:1
L:65 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:71 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:73 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
M:254 Repeated in SeqNo=1
L:137 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:145 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:147 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:209 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:215 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:217 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:281 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:284 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:286 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:306 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:8
L:312 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:326 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:348 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:352 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:354 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:378 M:252 E: No. of Seq. differs, <211> LENGTH:Input:9555 Found:9575 SEQ:1
L:418 M:254 E: No. of Bases conflict, LENGTH:Input:6 Counted:844 SEQ:2
L:418 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:422 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:424 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:2
M:254 Repeated in SeqNo=2
L:486 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:489 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:491 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:2
L:555 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:557 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:559 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:2
L:585 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:589 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:593 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:621 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:625 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:627 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:2
L:691 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:694 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:696 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:2
L:734 M:252 E: No. of Seq. differs, <211> LENGTH:Input:9546 Found:9563 SEQ:2
L:758 M:254 E: No. of Bases conflict, LENGTH:Input:11 Counted:364 SEQ:3
L:758 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:760 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
```

VERIFICATION SUMMARY   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:17

Input Set : **A:\Sequence Listing-70094USPCT.txt**
Output Set: **N:\CRF4\12222004\J517039.raw**

```
L:762 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
M:254 Repeated in SeqNo=3
L:792 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:826 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:828 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:830 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:892 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:894 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:896 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:914 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:918 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:9
L:920 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:8
L:926 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:928 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:932 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:5
L:940 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:946 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:948 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:960 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:962 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:964 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:1026 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1029 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1031 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:1095 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1098 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1100 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:1124 M:252 E: No. of Seq. differs, <211> LENGTH:Input:10604 Found:10626 SEQ:3
L:1162 M:254 E: No. of Bases conflict, LENGTH:Input:17 Counted:784 SEQ:4
L:1162 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1164 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1166 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:4
M:254 Repeated in SeqNo=4
L:1230 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1233 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1235 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:4
L:1235 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1297 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1300 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1302 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:4
L:1366 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1368 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1370 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:4
L:1432 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1434 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1436 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:4
L:1450 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1450 M:252 E: No. of Seq. differs, <211> LENGTH:Input:8757 Found:8779 SEQ:4
```